

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P381248

Luminaire Tested: **PRV-XL-PA3A-730-U-T3-HSS**

Issue Date: 1/15/2020

Test Information

Test Method: LM-79-08
Report Number: P381248
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-14)
Test Lab: INNOVATIONS CENTER
Issue Date: 1/15/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: PRV-XL-PA3A-730-U-T3-HSS
Description: PREVAIL AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 750mA LIGHT ENGINES WITH 24 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16553 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.42' x L: 1.79' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B2 - U0 - G3

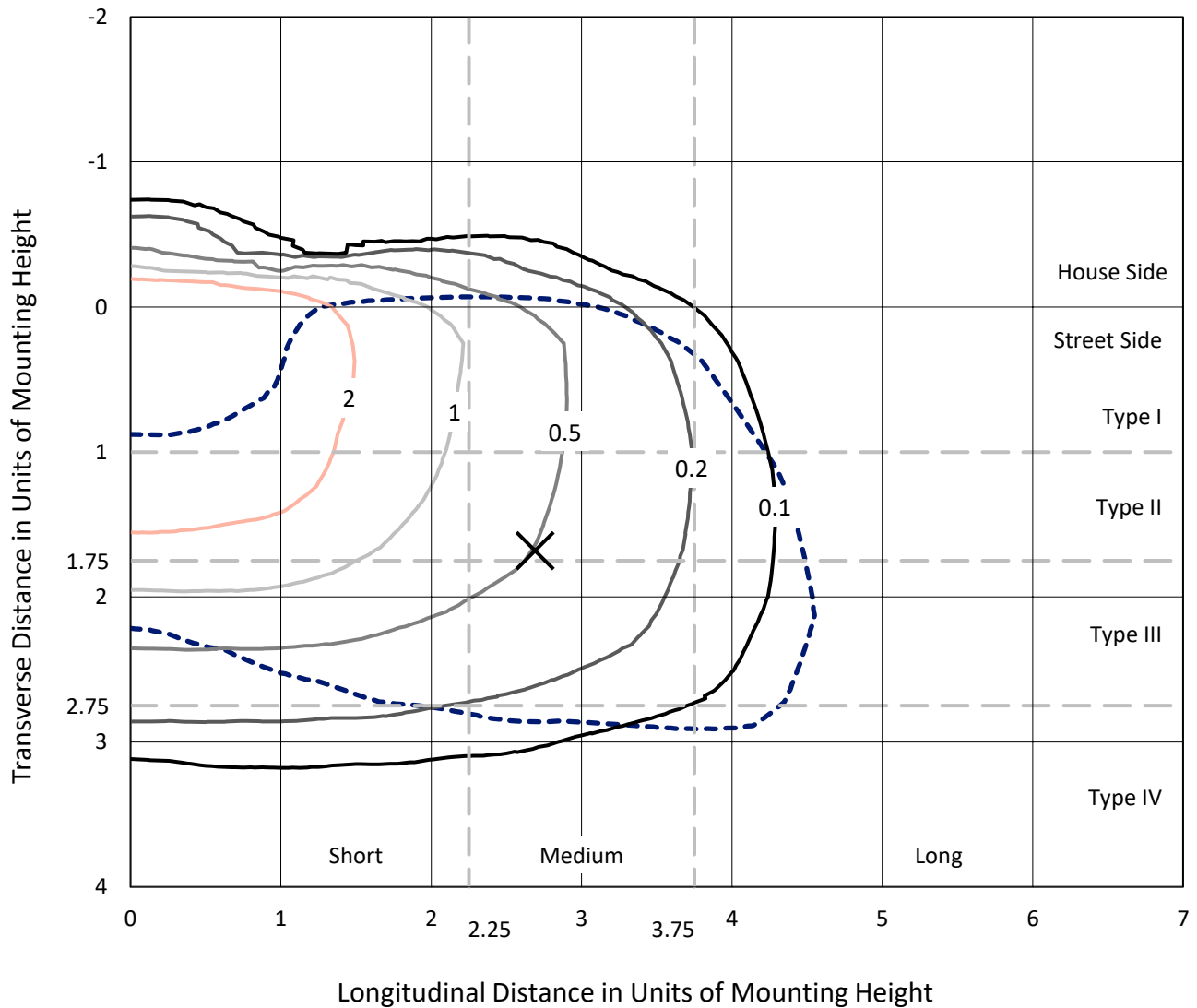
Input Watts (W): 172
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

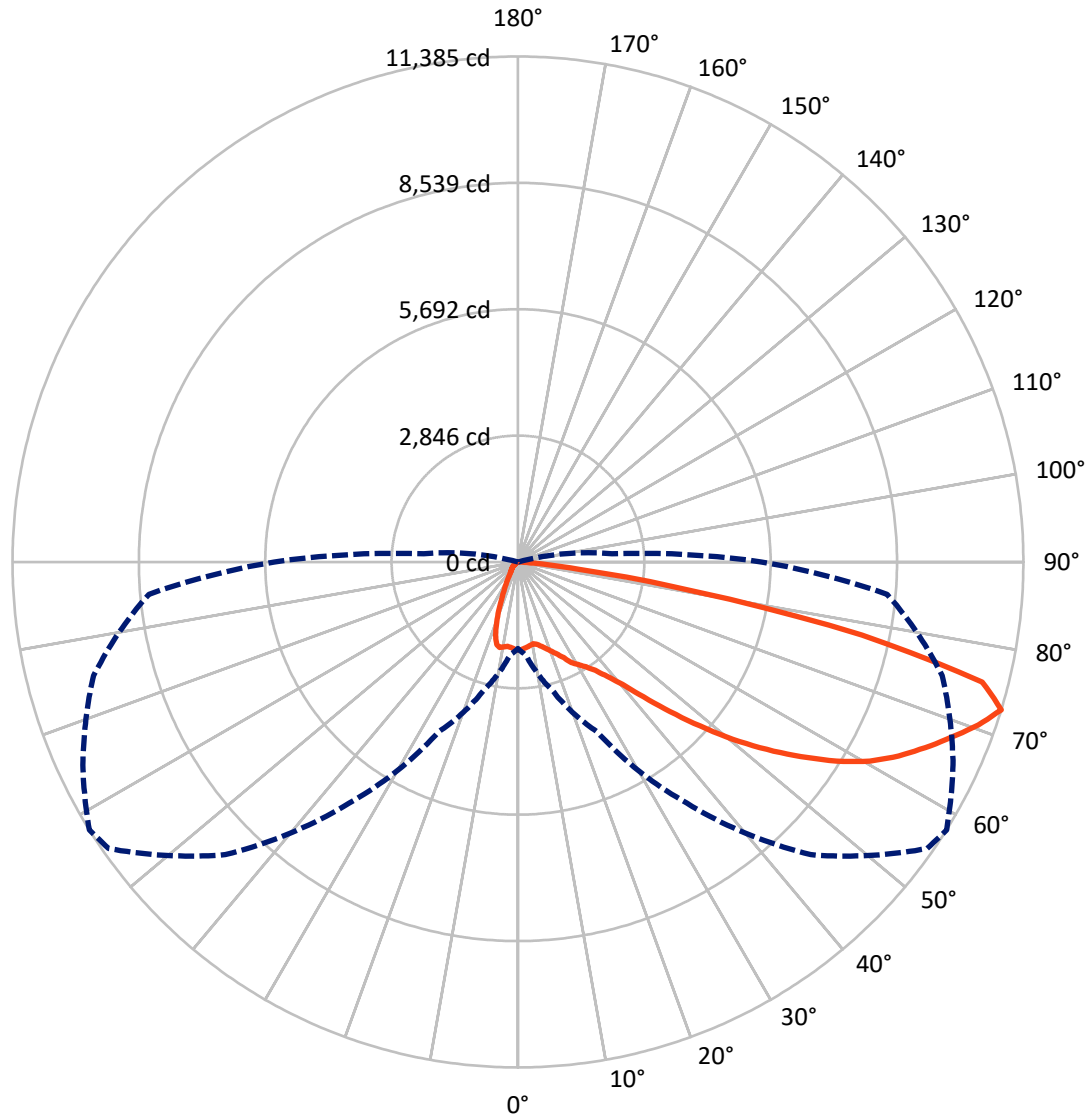
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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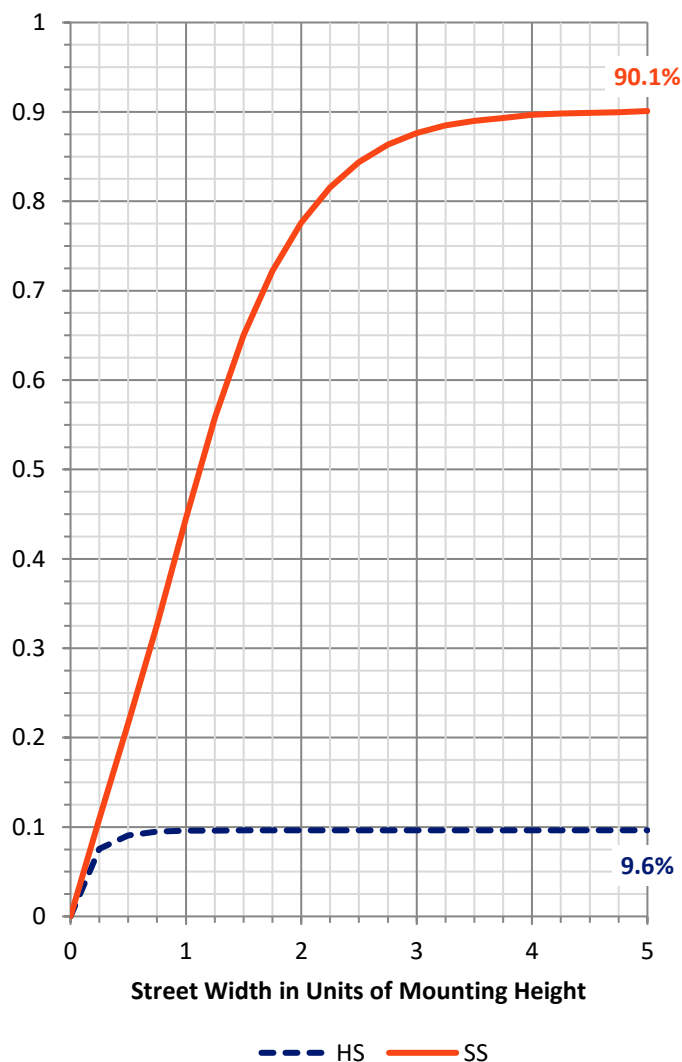
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1609.7	0.0	1609.7
	% Fixture	9.7	0.0	9.7
Street Side	Lumens	14943.3	0.0	14943.3
	% Fixture	90.3	0.0	90.3
Total	Lumens	16553.0	0.0	16553.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	182.3	1.1
10°-20°	474.8	2.9
20°-30°	745.9	4.5
30°-40°	1286.3	7.8
40°-50°	2447.3	14.8
50°-60°	3875.7	23.4
60°-70°	4522.5	27.3
70°-80°	2832.5	17.1
80°-90°	185.9	1.1
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	16553.0	100.0
0°-180°	16553.0	100.0

Coefficient of Utilization

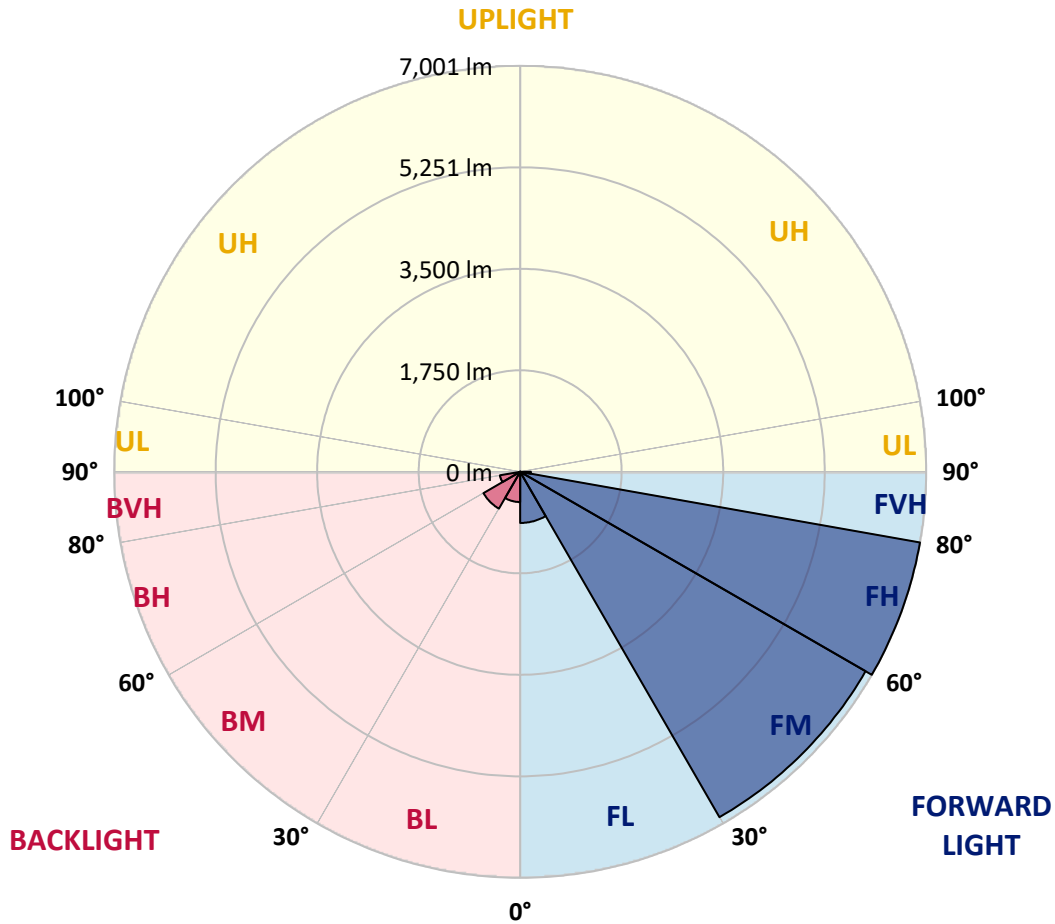


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	881.7	5.3			
FM (30°-60°)	6876.8	41.5			
FH (60°-80°)	7000.7	42.3			G3/7500
FVH (80°-90°)	184.1	1.1			G2/225
BL (0°-30°)	521.3	3.1	B2/1000		
BM (30°-60°)	732.4	4.4	B1/1000		
BH (60°-80°)	354.2	2.1	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3
2.5°	1977.4	1968.5	1965.5	1962.6	1965.5	1968.5	1959.6	1968.5	1962.6	1965.5	1971.5
5°	1906.3	1897.5	1894.5	1897.5	1906.3	1921.1	1927.1	1935.9	1935.9	1944.8	1947.8
7.5°	1826.4	1820.5	1817.5	1823.5	1841.2	1873.8	1891.5	1903.4	1915.2	1933.0	1950.7
10°	1782.0	1779.0	1776.1	1785.0	1802.7	1832.3	1856.0	1873.8	1918.2	1968.5	2001.1
12.5°	1752.4	1752.4	1758.3	1776.1	1799.8	1823.5	1879.7	1903.4	1971.5	2048.4	2092.8
15°	1728.7	1728.7	1737.6	1770.2	1802.7	1859.0	1941.9	1968.5	2048.4	2143.1	2202.3
17.5°	1711.0	1716.9	1722.8	1755.4	1817.5	1912.3	2009.9	2048.4	2146.1	2249.7	2314.8
20°	1713.9	1719.8	1722.8	1755.4	1844.2	1974.4	2098.7	2143.1	2255.6	2365.2	2430.3
22.5°	1731.7	1740.6	1743.5	1787.9	1891.5	2039.5	2199.4	2249.7	2371.1	2486.5	2536.8
25°	1805.7	1811.6	1793.8	1832.3	1959.6	2140.2	2329.6	2382.9	2504.3	2610.9	2652.3
27.5°	2057.3	2063.2	1965.5	1921.1	2012.9	2223.1	2489.5	2563.5	2714.5	2785.5	2791.4
30°	2602.0	2607.9	2415.5	2205.3	2140.2	2294.1	2578.3	2681.9	2877.3	2957.2	2921.7
32.5°	3303.5	3297.6	3034.2	2723.3	2442.1	2418.4	2705.6	2815.1	3028.2	3105.2	3078.6
35°	4008.0	4016.9	3791.9	3324.2	2921.7	2652.3	2868.4	2995.7	3253.2	3362.7	3315.4
37.5°	4490.5	4549.7	4452.1	3945.9	3510.7	3084.5	3131.8	3268.0	3590.7	3738.7	3638.0
40°	5171.4	5156.6	4919.8	4546.8	4162.0	3723.9	3558.1	3623.2	3993.2	4191.6	4034.7
42.5°	6086.1	6056.5	5653.9	5289.8	4860.6	4502.4	4164.9	4153.1	4455.0	4685.9	4458.0
45°	6914.9	6870.5	6595.2	6243.0	5772.3	5360.8	4905.0	4801.4	5011.5	5206.9	4940.5
47.5°	7575.0	7501.0	7305.6	7119.2	7003.7	6364.3	5680.5	5523.6	5630.2	5775.2	5399.3
50°	8356.5	8152.2	7868.1	7755.6	7995.4	7501.0	6426.5	6275.5	6269.6	6352.5	5872.9
52.5°	8711.7	8341.7	8181.8	8276.6	8699.9	8557.8	7231.6	7015.6	6929.7	6938.6	6314.0
55°	8282.5	8241.1	8326.9	8622.9	9176.5	9093.6	8004.2	7737.8	7610.5	7450.7	6737.3
57.5°	7794.1	7921.4	8261.8	8827.2	9780.3	9653.0	8765.0	8463.1	8229.2	7862.2	7208.0
60°	7344.1	7474.4	8036.8	8874.5	10111.9	10191.8	9398.5	9111.3	8765.0	8282.5	7726.0
62.5°	6660.3	6761.0	7551.3	8806.4	9966.8	10505.6	9839.5	9623.4	9300.8	8682.1	8321.0
65°	5890.7	5955.8	6737.3	8261.8	9682.6	10470.0	10203.6	10082.3	9768.5	9099.5	8910.0
67.5°	5047.1	5124.0	5775.2	7282.0	9126.1	10304.3	10547.0	10535.2	10177.0	9561.3	9336.3
70°	4076.1	4082.0	4620.8	6038.7	8155.2	9972.7	10973.3	10999.9	10567.7	9907.6	9354.1
72.5°	1950.7	2110.6	2995.7	4215.3	6627.8	9321.5	11251.5	11384.7	10813.4	9895.8	8344.7
75°	447.0	461.8	873.2	2004.0	3886.7	7154.7	10555.9	10804.5	10215.5	8557.8	5878.9
77.5°	162.8	171.7	245.7	586.1	1494.9	3697.2	7554.3	7918.4	7551.3	5532.5	2779.6
80°	109.5	106.6	127.3	260.5	686.8	1047.9	3863.0	4079.1	3723.9	1888.6	666.0
82.5°	56.2	59.2	88.8	145.0	461.8	364.1	1290.6	1403.1	1154.5	378.9	124.3
85°	26.6	26.6	50.3	91.8	195.4	127.3	287.1	346.3	310.8	165.8	41.4
87.5°	26.6	26.6	47.4	59.2	100.6	53.3	71.0	88.8	82.9	88.8	14.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3	1986.3
2.5°	1971.5	1968.5	1965.5	1971.5	1968.5	1974.4	1974.4	1980.3	1980.3	1974.4	1971.5
5°	1944.8	1938.9	1933.0	1933.0	1930.0	1935.9	1953.7	1968.5	1971.5	1962.6	1959.6
7.5°	1947.8	1947.8	1941.9	1930.0	1909.3	1909.3	1909.3	1927.1	1935.9	1930.0	1927.1
10°	2001.1	2004.0	1989.2	1962.6	1927.1	1894.5	1832.3	1740.6	1654.7	1631.0	1622.2
12.5°	2092.8	2095.8	2066.2	2018.8	1944.8	1752.4	1515.6	1296.5	1127.8	1080.5	1071.6
15°	2202.3	2205.3	2152.0	2075.1	1850.1	1403.1	1050.9	802.2	654.2	618.7	615.7
17.5°	2314.8	2308.9	2229.0	2081.0	1568.9	994.6	639.4	512.1	473.6	464.7	467.7
20°	2424.4	2406.6	2297.1	1971.5	1207.7	651.2	467.7	438.1	429.2	423.3	423.3
22.5°	2525.0	2489.5	2353.3	1755.4	846.6	467.7	417.4	411.5	399.6	390.7	387.8
25°	2625.7	2575.3	2388.8	1474.2	568.3	408.5	393.7	381.9	367.1	355.2	352.3
27.5°	2747.0	2676.0	2371.1	1118.9	426.3	378.9	367.1	349.3	328.6	310.8	304.9
30°	2862.5	2782.5	2270.4	772.6	364.1	349.3	331.5	304.9	278.3	257.5	251.6
32.5°	3007.5	2915.7	2089.9	506.2	316.7	304.9	287.1	254.6	219.1	195.4	189.4
35°	3214.7	3111.1	1859.0	355.2	278.3	257.5	233.9	198.3	159.8	142.1	139.1
37.5°	3504.8	3365.7	1568.9	287.1	245.7	216.1	180.6	145.0	118.4	103.6	100.6
40°	3860.0	3646.9	1246.2	254.6	219.1	180.6	136.2	103.6	85.8	74.0	74.0
42.5°	4244.9	3910.4	917.6	233.9	192.4	148.0	100.6	74.0	62.2	56.2	53.3
45°	4641.5	4144.2	618.7	216.1	168.7	112.5	71.0	50.3	41.4	41.4	38.5
47.5°	5053.0	4301.1	399.6	195.4	142.1	82.9	47.4	35.5	29.6	29.6	29.6
50°	5461.5	4384.0	284.2	177.6	115.4	56.2	35.5	26.6	23.7	23.7	23.7
52.5°	5757.5	4330.7	227.9	153.9	88.8	41.4	26.6	20.7	17.8	17.8	17.8
55°	6015.0	4238.9	198.3	133.2	65.1	29.6	20.7	17.8	14.8	14.8	14.8
57.5°	6278.5	4120.5	177.6	112.5	47.4	20.7	14.8	11.8	11.8	11.8	11.8
60°	6518.2	3919.2	153.9	88.8	32.6	14.8	11.8	8.9	8.9	8.9	8.9
62.5°	6752.1	3747.5	133.2	68.1	23.7	11.8	5.9	5.9	3.0	3.0	3.0
65°	6885.3	3516.7	106.6	44.4	14.8	8.9	3.0	3.0	0.0	0.0	0.0
67.5°	6843.9	3241.4	74.0	26.6	8.9	5.9	3.0	0.0	0.0	0.0	0.0
70°	6556.7	2871.3	44.4	14.8	8.9	5.9	3.0	0.0	0.0	0.0	0.0
72.5°	5491.1	2125.4	26.6	11.8	5.9	3.0	0.0	0.0	0.0	0.0	0.0
75°	3667.6	976.8	14.8	8.9	3.0	3.0	0.0	0.0	0.0	0.0	0.0
77.5°	1678.4	293.1	8.9	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	337.5	77.0	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	71.0	14.8	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.9	3.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)